

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 April 2012 (19.04.2012)

(10) International Publication Number
WO 2012/051573 A1

PCT

(51) International Patent Classification:
C09D 5/00 (2006.01)

(21) International Application Number:
PCT/US2011/056429

(22) International Filing Date:
14 October 2011 (14.10.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/905,999 15 October 2010 (15.10.2010) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: COATING COMPOSITIONS WITH ANTICORROSION PROPERTIES

(57) Abstract: Anticorrosive coating compositions comprise a binding polymer and an amorphous aluminum phosphate corrosion inhibiting pigment. The composition comprises from about 1 to 25 percent by weight amorphous aluminum phosphate. The amorphous aluminum phosphate has a water adsorption potential of up to about 25 percent by weight water. The composition provides a controlled phosphate delivery of from about 50 to 500 ppm, and preferably of from about 100 to 200 ppm. The composition has a total solubles content of less than about 1,500 ppm. The amorphous aluminum phosphate is preferably substantially free of alkali metals. The amorphous aluminum phosphate is made by combining aluminum hydroxide with phosphoric acid and sodium aluminate. The amorphous aluminum phosphate is treated to reduce the level of unwanted solubles, and the treated amorphous aluminum phosphate is dried at less than about 300°C. The composition is used as a primer coat, a mid-coat, and/or a top-coat coating.



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